WHAT IS CLAIMED IS:

. 2	1. An adjustable auxiliary apparatus of stable air conditioning for human
3	respiratory system and the apparatus comprising:
4	a platform having a top, a bottom, a channel defined transversally in the
5	top and a filter case having an intake air entrance and an air exit;
6	an air treatment assembly mounted in the platform and comprising
. 7	an air filter mounted in the filter case and comprising
8	a housing mounted in the filter case and having an air
9	inlet communicating with the intake air entrance and an air outlet aligned with
10	the air exit;
11	a filtering core mounted in the housing; and
12	a powered fan mounted in the filtering core to draw air
13	inward the housing;
14	an air duct mounted in the channel and having a transverse
15	segment, a vertical segment, an interior periphery, an exterior periphery, a
16	narrowed end and a top end, the narrowed end formed at the transverse segment
17	and being fitted and held in the aligned air exit and air outlet, and the top end
18	formed at the vertical segment;
19	a humidity control mounted in the platform and comprising a
20	condenser mounted on the exterior periphery of the air duct on the transverse
21	segment and a condenser controller to control the condenser;
22	a heating device mounted in the platform and comprising a
23	heater mounted on the exterior periphery of the air duct on the transverse
24	segment and a heater controller to control the heater;

1	a water vapor generator mounted on the platform and
2	comprising
3	a water vapor tank with a top, a bottom and an inner
4	space connected to the vertical segment of the air duct where the top end in the
5	vertical segment of the air duct connects to the water vapor tank at the top; and
6	an ultrasonic generator mounted at the bottom of the
7	water vapor tank to produce ultrasonic waves; and
8	a clean air venting hose connected to the water vapor tank at the
9	top of the water vapor tank; and
10	a host controlling assembly mounted in the platform and comprising
11	a modular controlling circuit board operating a servo control
12	system and connected electrically to the condenser and heater controllers, the
13	powered fan of the air filter and the ultrasonic generator of the water vapor
14	generator;
15	multiple control knobs connected electrically to the modular
16	controlling circuit board; and
17	multiple sensing elements mounted respectively on the
18	transverse segment at the narrowed end and the clean air venting hose.
19	2. The apparatus as claimed in claim 1, wherein the filtering core of the
20	air filter comprises
21	a porous outside filtering cage made of a fabric of irregular fiberglass
22	and fiber;
23	a porous inside filtering cage mounted in the outside filtering cage and
24	having a smell adsorption mixture of active carbon, potassium permanganate

1	and zeolite; and
2	a filtering fine mesh contains active carbon wrapped radially around the
3	outside filtering cage.
4	3. The apparatus as claimed in claim 1, wherein water vapor generator
5	further comprises
6	a supplementary water device having at least one supplementary water
7	tank communicating with the water vapor tank at the bottom; and
8	a water level controlling device comprising
9	an electromagnetic valve to control flow of water out of the at
10	least one supplementary water tank to enter the water vapor tank; and
11	a water level switch attached to the water vapor tank and
12	electrically connected to the electromagnetic valve.
13	4. The apparatus as claimed in claim 1, wherein the air treatment
14	assembly further comprises an ozone generator mounted in the platform,
15	controlled by the modular controlling circuit board and having a connecting hose
16	connected to the transverse segment to generate ozone to enter the transverse
17	segment.
18	5. The apparatus as claimed in claim 1, wherein the interior periphery of
19	the air duct has a layer of thin film of photo catalysis, titanium dioxide (TiO ₂).
20	6. The apparatus as claimed in claim 1, wherein the clean air venting

hose has multiple separated segments, a connector, a connecting duct and a thermostat heating coil wrapped around the clean air venting hose to maintain the air temperature in the clean air venting hose at a given level.

7. The apparatus as claimed in claim 1 further comprising a separated

- display electrically connected to the modular circuit board to show air conditions
- 2 handled by the apparatus.
- 8. The apparatus as claimed in claim 2, wherein the water vapor
- 4 generator further comprises
- 5 a supplementary water device having at least one supplementary water
- 6 tank communicating with the water vapor tank at the bottom; and
- 7 a water level controlling device comprising
- 8 an electromagnetic valve to control flow of water out of the at
- 9 least one supplementary water tank to enter the water vapor tank; and
- a water level switch attached to the water vapor tank and
- electrically connected to the electromagnetic valve.
- 9. The apparatus as claimed in claim 8, wherein the air treatment
- assembly further comprises an ozone generator mounted in the platform,
- 14 controlled by the modular controlling circuit board and having a connecting hose
- 15 connected to the transverse segment to generate ozone to enter the transverse
- 16 segment.
- 17 10. The apparatus as claimed in claim 9, wherein the interior periphery
- of the air duct has a layer of thin film of photo catalysis, titanium dioxide (TiO_2).
- 11. The apparatus as claimed in claim 10, wherein the clean air venting
- 20 hose has multiple separated segments, a connector, a connecting duct and a
- 21 thermostat heating coil wrapped around the clean air venting hose to maintain
- 22 the air temperature in the clean air venting hose at a given level.
- 23 12. The apparatus as claimed in claim 11 further comprising a separated
- 24 display electrically connected to the modular circuit board to show air conditions

1 handled by the apparatus.